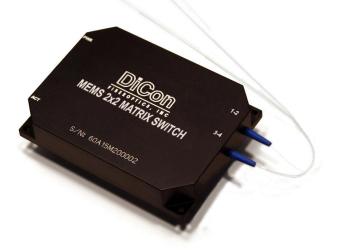
MEMS 2X2 OPTICAL MATRIX SWITCH

DiCon's MEMS 2x2 Optical Matrix Switch is a true 2x2 optical switch. It has two fiber inputs and two fiber outputs and can be switched to one of two configurations, shown below. This optical switch utilizes DiCon's proprietary MEMS technology to achieve reliable optical performance and excellent durability; DiCon's Optical Switches have been shown to last for over 1 billion switch cycles and are qualified to Telcordia GR-1221 environmental standards.

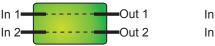


FEATURES

- Reliable Optical Performance
- Excellent Durability
- Compact Form Factor
- Low Power Consumption

APPLICATIONS

- Optical Communications
- Bio-medical Instrumentation
- Test Applications
- Add/Drop Applications







MEMS 2X2 OPTICAL MATRIX SWITCH

OPTICAL SPECIFICATIONS^{1,2}

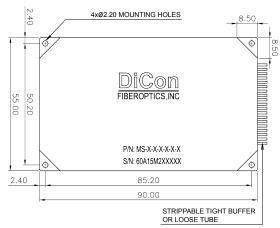
PARAMETER	RATING
Insertion Loss ^{3,4}	1.8 dB max.
Crosstalk	-50 dB max.
Back Reflection	-50 dB max.
Switching Time	30 ms max.
TDL	0.40 dB max.
WDL ⁵	0.30 dB max.
PDL	0.15 dB max.
Repeatability ⁶	0.04 dB max.
Durability	109 cycles min.
Optical Power	500 mW max.
Operating Temp	-5 to 70°C
Storage Temp	-40 to 85°C
Fiber Type	9/125 μm single mode

- 1. Specifications are without connectors.
- 2. Specifications only guaranteed in defined switch states.
- 3. IL is measured at CWL, 23°C.
- 4. IL is for single-band. Dual-band adds 0.2 dB.
- 5. WDL is measured in a +/- 20nm range at 23°C.
- 6. Repeatability is defined after 100 cycles.

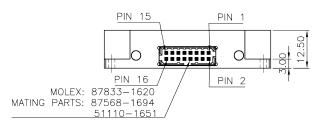
MECHANICAL DIMENSIONS

(Units: mm)

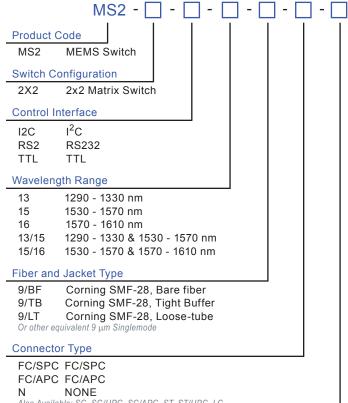
Top View



Left Side View



ORDERING INFORMATION



Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

Pigtail Length

1 Meter

Specify X Meters

Tolerance is +/- 0.05 m

FI FCTRICAL SPECIFICATIONS

PARAMETER		RATING
Latching Type		non-latching
Control Type		I ² C, RS232 or TTL
Vcc	I ² C, RS232	12 VDC
Voltage	TTL	5 VDC
Power	I ² C, RS232	700 mW max.
Consumption	TTL	1.5 W max.
Connector Typ	е	Molex 87833-1620